SNC2D BIOLOGY: A FEW OF THE MANY KINDS OF SPECIALIZED CELLS FOUND IN ANIMALS WS#6

The cell theory states that every cell comes from a previously existing cell. You started life as a single fertilized egg. A towering maple tree also started as a single cell. The many cells in a complex organism are not all identical, however. Look at your best friend or any other living thing around you: they are made up of cells with different structures and different functions.

1. Use the terms to the right to label each type of cell described below:
2. Cut out the pictures from the second page and then paste them in the appropriate space below.

- bone cells
- fat cells
- muscle cells
- nerve cells
- photophore cells
- red blood cells
- skin cells
- sperm cells
- white blood cells

	_____ • contain hemoglobin that carries oxygen in blood • are smooth so that they can easily pass through the blood vessels

	_____ • fit together tightly to cover the outside of the body • protect the cells inside & reduces water loss

	_____ • collect calcium from food • allow the growth & repair of bones

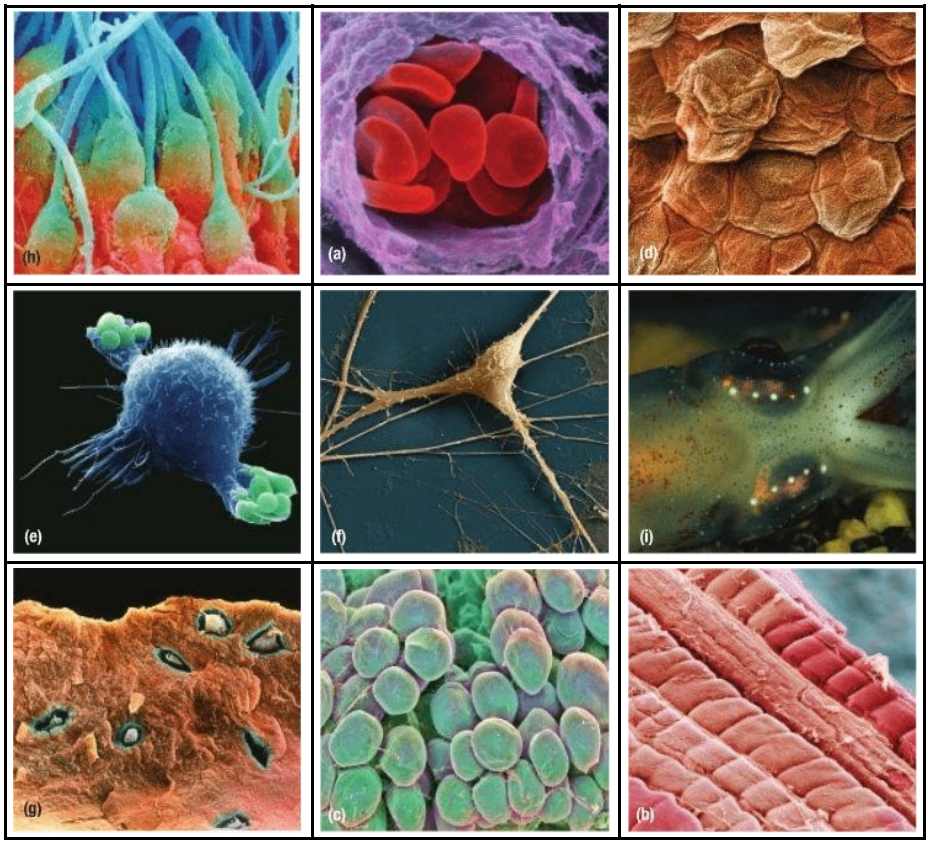
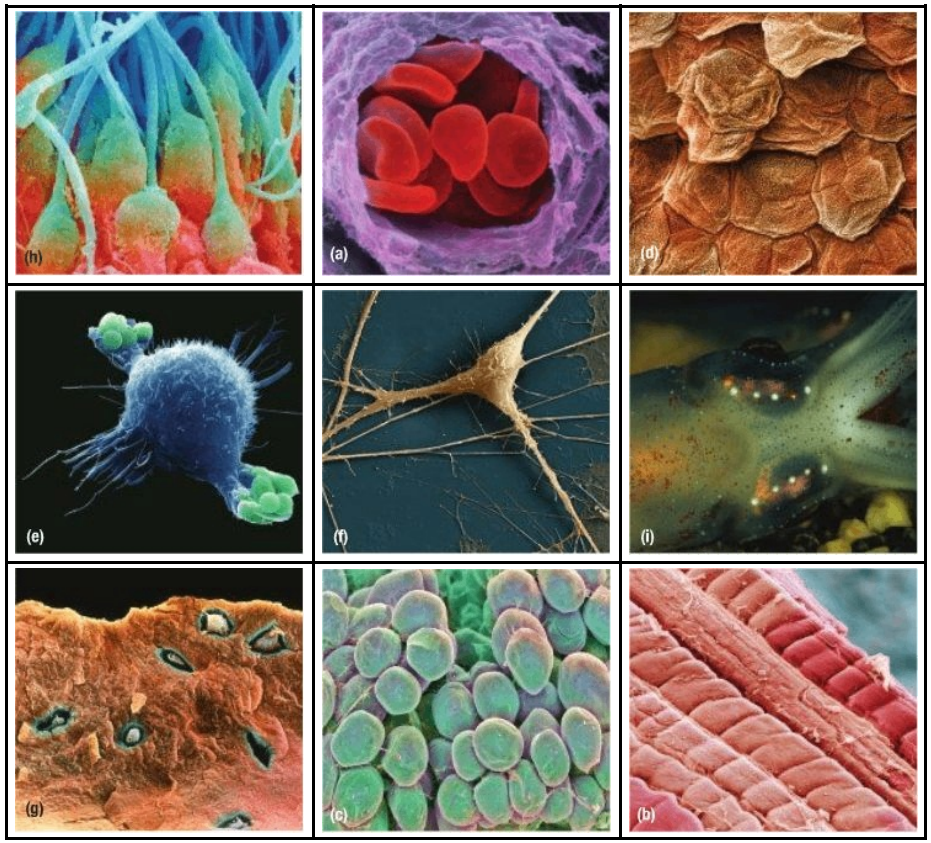
	_____ • are arranged in bundles called muscle fibres • can contract which makes the fibres shorter and causes bones to move

	_____ • can move like an amoeba to engulf bacteria & fight infection

	_____ • are able to move independently • carry DNA from the male parent to join an egg from the female parent

	_____ • have a large vacuole in which to store fat molecules • how cells store chemical energy

	_____ • are long, thin and have many branches • conduct electrical impulses to coordinate body activity

	_____ • can emit light • are used by animals that are active at night or live deep in the ocean

NOTE: There are two sets of cards on this sheet. Share with a friend to help eliminate waste!